

√INOGRADSKAYA, G.M.

Schistose banded dunite-peridotite. Zap. Vses. min. ob-va 85 no. 2:232-235 '56. (MLRA 9:9)

(Dunites) (Peridotites)

WSR/Mining - Fetrography

ولله ولا والأسطيط في في الأنابلية و

card 1/1- : Pub. 22 - 37/48

Authors : Vinogradshaya, G. M.

Title : Dunite-prematite the altra basis formation of Ural

Periodical : Dok. AN OSSR 97/5, 899-902, August 11, 1954

Abstract

1 Data on the metasomatic origin of dunite-permatite rocks which are the ultra-basic formations (deposits) of the Ural. The physico-chemical conditions leading to the formation of dunite-permatite are explained.

Table showing the commissal composition of dunite-pegmatite is included.

One USSR reference (1952).

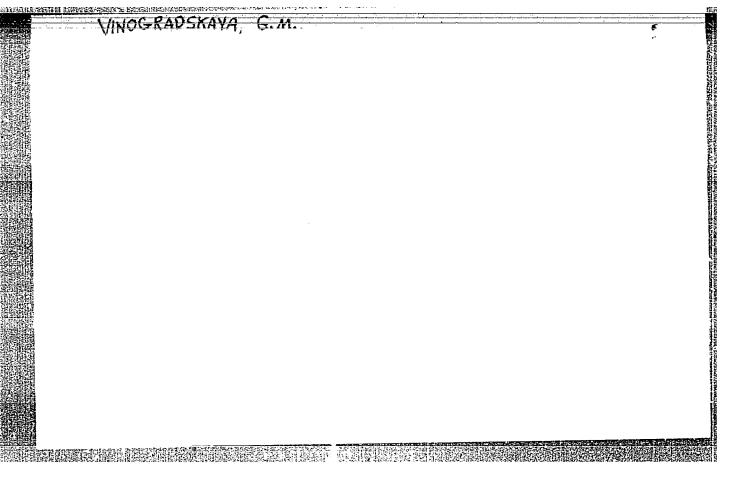
Institution : ...

Presented by: Academician D. S. Korzbinskiy, May 28, 1954

1.	VINOGRADSKAYA,	G.	М.
2.	USSR (600)		

- 4. Chrysolite
- 7. Genesis of certain olivine rocks, Dokl. AN SSSR, 87, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March, 1953. Unclassified.



VINOGRADSKAYA, G.H.

Dunite and pegmatite ultrabasic formations in the Urals. Dokl. AN SSSR 97 no.5:899-902 Ag '54. (MIRA 7:10)

1. Predstavleno akademikom D.S.Korshinskim.
(Ural Mountain region--Pegmatites) (Pegmatites--Ural
Mountain region) (Ural Mountain region--Dunite) (Dunite--Ural Mountain region)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

是中国企会的,但是自己的最大的思想,但是对自己的国际的人,但是他们是自己的人,但是是自己的人,这个人,这个人,但是是自己的人,但是是自己的人,但是是他们的人,他们

VINOGRADSKAYA, I.V., red.; MATVEYEVA, A.Ye., tekhn. red.

[Drawings in the manufacture of machinery]Chertezhi v mashinostroenii. Izd. ofitsial'noe. Moskva, Standartgiz, 1962.
143 p. (MIRA 16:2)

(Machinery—Drawing)

VINOGRADSKAYA, M. A.

"Electron Microscopy of Leukocyte Extracts of Persons Suffering From Leukosis," by N. I. Nadgornaya and M. A. Vinc. -ad-skaya, Laboratory of Etiology of Tumors (head, Prof A. D. Timofeyevskiy, Active Member, Academy of Medical Sciences Timofeyevskiy, Active Member, Academy of Medical Sciences (USSR), Ukrainian Institute of Microbiology, Epidemiology, and Hygiene (director, S. N. Terekhov) and the Hematology Division of the Ukrainian Institute of Clinical Medicine (head, Prof D. N. Yanovskiy, director, Prof A. L. Mikhnev), Voprosi Onkologii, Vol 2, No 5, 56, pp 528-532

The purpose of this research was to obtain new proofs of the presence of viruslike formations in extracts from leukocytes of persons suffering from leukosis. The method used was electron microscopy, according to A. D. Timofeyevskiy.

A total of 40 patients were under observation: eight with acute and subacute forms of leukosis and 32 with the chronic form.

In the extracts from leukocytes of persons suffering from leukosis were detected single globular formations measuring 50 - 150 millimicrons in diameter, found in pairs, and rarely in groups. In some cases such formations were detected only after cultivating leukocytes in vitro.

The authors suppose that these formations may be of a virus nature.

Sum. 1305

USSR/Tumors

Card

U-4

Abs Jour : Rof Zhur - Biol., No 6, 1958, No 27745

: Nadgodnaya, N.I., Vinogradskaya, M.A. **Author** 

: Not Givon Inst

: Electronic Microscopy of Leucocyto Extracts of Persons Suf-Title

foring from Loukomia.

Orig Pub : Vopr. onkologii, 1956, 2, No 5, 528-532.

Abstract : Loucceyte extracts of blood of 40 patients with acute and subscuto leukemias, chronic myoloid and lymphatic leukomias and 9-60-day old cultures of white blood cells of these patients grown on a modium containing embryonal human tissue in Carroli's flasks, were studies by means of electron microscopy. In the great majority of cases virsu-like, spherical and, at times, semewhat eval elengated formations 50-150 n microns in diemeter were found which were usually attend separately and, rarely, in pairs or groups. Their absence in single proparations is explained by technical difficulties. The authors believe these formations to be living and capable of nultiplying in cultures. Their eticlogic significance do-

sorves further studies. : 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

特别的美国的基础的表现的表现代表现实,我们是是不是有的的主义的规则的是对人们的主义的主义的主义的主义的主义的主义的主义的主义的主义的是是这种的主义的是对人们的主

CHEPELEVA, M.A.; VINOGRADSKAYA-YEZERSKAYA, M.A. (Kiyev)

Therapeutic effect of preparation No.8 (embitol) in some systemic diseases of the hemopoietic organs. Vrach.delo no.8:815-819 Ag 159.

(MIRA 12:12)

1. Otdel klinicheskoy gematologii (zav. - prof. D.N. Tanovskiy)
Ukrainskogo nauchno-issledovatel'skogo instituta klinicheskoy meditsiny imeni akademika N.D. Strazhesko.

(ETHYLAMINE) (HEMOPOIETIC SYSTEM--DISEASES)

STRAZHESKO, N.D.; TANOVSKIY, D.N.,; VINOGRADSKAYA, M.A.

[Panctates of lumph nodes; an atlas] Punktaty limfaticheskikh uslov; atlas. Kiev, Gos.med.izd-vo USSR, 1953. 33 p.

(LIMPHATICS)

(MLRA 10:5)

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

NADGORMAYA, N.I. (Kiyev, Bul'var Shevchenko, d.3, kv.3); VINOGRADSKAYA, M.A.

Mlectron microscopy of leukocyte extracts in leukosis [with summary in English]. Vop.onk. 2 no.5:528-532 '56.

1. Is laboratorii etiologii opykholey (sav. - deystvitel'nyy chlen AMN SSSR professor A.D.Timofeyevskiy) Ukrainskogo instituta mikrobiologii epidemiologii i gigiyeny (dir. - S.N.Terekhov) i iz gematologicheskogo otdela Ukrainskogo instituta klinicheskoy meditsiny (zav. - prof. D.N.Yanovskiy, dir. - prof. A.L.Mikhnev)

(LEUKEMIA, virus-like leukocyte extracts, electron microscopy)

(MICROSCOPY, EIECTRON, of leukocyte virus-like extracts in leukemia (Rus))

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

ACCESSION NR: AT4033530

8/0000/63/000/000/0007/0017

AUTHOR: Furman, M.S. (Doctor of chemical sciences); Lipes, V.V.; Vinogradskaya, M. V.; Gol'tyayeva, N. A.

TITLE: Liquid phase oxidation of cyclohexane by atmospheric air at high temperatures

SOURCE: Poluprodukty\*dlya sinteza poliamidov (Intermediates for polyamide synthesis). Moscow, Goskhimizdat, 1963, 7-17

TOPIC TAGS: cyclohexane, cyclohexanol, cyclohexanone, cyclohexane oxidation, liquid phase oxidation, cyclohexane air oxidation, high temperature cyclohexane oxidation, cyclohexane oxidation kinetics

ABSTRACT: The kinetics of the liquid phase air oxidation of cyclohexane were studied in the absence of catalysts at temperatures of 160, 170 and 180C and pressures of 20, 35 and 50 atm. It was established that high temperature oxidation is of practical interest when the reaction lasts less than one hour. The ratio of cyclohexanol to cyclohexanone, resulting from the exidation of cyclohexane, increases the temperature rises. The specific activation energy of the reaction was 3.5 to 5.5 kcal/mol at pressures of 20 to 50 atm. Oxidation at the indicated temperatures occurs in the diffusion area, i.e.

Card

VINOGRADSKAIA, O.

RT-123 (On the gonadotropic cycle of Anopheles). O gonotroficheskon tsikle Anopheles.

Mediteinskaia Parazitologiia i Parazitarnye Bolezni, 3(6): 460-479, 1934.

pp 166-68,	1948.	Moscow Oblast.	the Mosquito Med. Paraz.	1 Paraz. Bolez.	Vol. 17, No. 2,

POD"YAPOL'SKAYA, V.P.; VINOGRADSKAYA, O.B.; ZASUKHIN, D.B.; GUSEYHOV, G.A.

[reviewers]; GHLLER, E.R., EALASHRUVA, A.P. [authors].

"General Biology." E.R.Geller, A.P.Kalashnikova. Reviewed by V.P.
Pod"ispol'skaia, O.N. Vinogradskaia, D.N. Zasukhin, G.A. Quseinov. Msd.
paras.i paras.bol. no.5:474-476 S-0 '53.

(Biology) (Geller, E.R.) (Kalashnikova, A.P.)

#### VINOGRADSKAYA, O.N.

Role of the tracheal system in the evaporation of water from the Anopheles maculipennis messeae Fall. and the seasonal variability of the spiracular index in species of the subfamily Cilicinae (Diptera, Culicidae). Ent.oboz. 33:157-160 153. (MLRA 7:5)

1. Entomologicheskiy sektor Instituta malyarii, meditsinskoy parasitologii i gel'mintologii Mlnisterstva zdravookhraneniya SSSR, Moscow. (Mosquitoes)

## VINOGRADSKATA O.K

Effect of the temperature of larval medium on the size of breathing tubes in winged Culicidae.Dokl. AN SSER 112 no.2:366-368 Ja 157.

1. Institut malyarii, meditsinskoy parazitologii i gel'mintologii i TSentral'nyy institut usovershenstvovaniya vrachey. Predstavleno akademikom K. I. Skryabinym.

(Mosquitoes)

VINOGRADSKAYA, O.N.

Effect of chlorophos and temperature on the respiratory rhythm of flies. Med. paraz. i paraz. bol. 33 no.5:527-532 S-0 54.

l. 'nstitut meditsinskoy parazitologii i tropicheskoy meditsiny i eni Martsinovskogo Ministerstva zdravookhraneniya SSSR i kafedra meditsinskoy parazitologii TSentralinogo instituta usovershenstvovaniya rachey, Moskva.

VINOGRADSKAYA, O.N.

Work of medical entomologists of sanitation and epidemiological stations during the winter. Med.paraz. i paraz. bol. 26 no.4: (MIRA 10:11)

1. Iz sektora meditainskoy entomologii Instituta malyarii, meditainskoy parazitologii i gal'mintologii Ministeratva zdravookhraneniya SSSR (zav. sektorom - prof. V.N.Beklemishav, dir. instituta - prof. P.G.Sargiyav) i Tšentral'nogo instituta usovershenstvovaniya vrachay (dir. instituta - prof. V.P.Lebedev)

(INSECTS, activities of med. entomologists during cold months (Rus))

Ulus acceda Kara, D.N.

\* USSR / Zooperasitology - Mites and Insects -Disease Vectors

G-4

Abs Jour: Referat. Zh. Biol., No. 1, 1958, 886

Vinogradskaya, O.N. Author

: Effect of the Water Temperature in Which Larvae Title

Develop on the Size of Respiratory Windpipes of

Winged Mosquitoes.

Orig Pub: Dokl. AN SSSR, 1957, 112, No. 2, 366, 368

Abstract: Breeding of Anopheles maculipennis atroparvus

larvae was conducted from stage III to wing growth at different temperatures from a laboratory culture; also larvae A.m. messeae and some other Culicini taken from water reservoirs of the Mos-

cow district. In males and females of A.m. messeae and A.m. atroparvus, Aedes dorsalis and

Theobaldia alaskaensis developed at 12-150, the

Card 1/2

USSR / Zooperasitology - Mites and Indects - Disease Vectors

G-4

Abs Jour: Referat. Zh. Biol., No. 2, 1958, 886

respiratory indices were larger than in those which were developed at 25°. The variation of index size from the average in different individuals was slight and no overlap of size index was observed at different temperatures. In males and females of Culex pipiens the differences were expressed somewhat less clearly, evidently because of the fact that for the experiment only larvae of state IV were used. Thus the external conditions of development in the aqueous stages (temperature) are significant in the process of formation of winged forms. The adaptive significance of these changes is discussed.

Card 2/2

VINOGRADSKAYA, O. N., Doc Biol Sci -- (diss) "Morphology and physiology of the respiratory apparatus and water balance of winged blood-sucking mosquitos in connection with conditions of habitat." Moscow, sucking mosquitos in connection with conditions of habitat." Moscow, 1960. 20 pp; (Academy of Medical Sciences); 200 copies; price not 1960. 20 pp; (Academy of Medical Sciences); (KL, 17-60, given; list of author's works at end of text (15 entries); (KL, 17-60, 145)

BEKLEMISHEV, V.N., prof.; VINOGRADSKAYA, O.N.; DARSKAYA, N.F.; DERBENEVA-UKHOVA, V.P.; DETINOVA; T.S.; DOLMATOVA, A.V.; LANGE, A.B.; OLSUF'YEV, H.G.; POSPELOVA-SHTROM, N.V.; HODENDORF, B.B.; SHIPITSINA, N.K.; PLAVIL'SHCHIKOV, N.N., red.; LYUDKOVSKAYA, N.I., tekhn.red.

[Guide to arthropods harmful to human health] Opredelitel' chlenistonogikh, vrediashchikh zdorov'iu cheloveka. Moskva, Gos. izd-vo med.lit-ry, 1958. 419 p. (MIRA 12:5)

1. Deystvitel'nyy chlen AMN SSSR (for Beklemishev). 2. Institut malyarii i meditsinskoy parazitologii Ministerstva zdravookhraneniya SSSR (for Beklemishev, Derbeneva-Ukhova, Detinova, Dolmatova, Pospelova-Shtrom, Shipitsina). 3. Kafedra parazitologii TSentral'nogo inst. usovershenstvovaniya vrachey (for Vinogradskaya). 4. Nauchno-issledovat.inst. Kavkaza i Zakavkaz'ya Ministerstva zdravo-okhraneniya SSSR v Stavropole (for Darskaya). 5. Kafedra entomologii Moskovskogo gosudarstvennogo universiteta im. M.V.Lomonosova (for Lange). 6. Otdel parazitologii i meditsinskoy zoologii Inst. epidemiologii i mikrobiologii im. N.F.Gamalei AMN SSR (for Olsuf'yev). 7. Institut paleontologii Akademii nauk SSSR (for Rodendorf).

LAZAREV, L.P., doktor tekhn.nauk, prof., red.; ZOLOTOV, P.F., inzh.red.; VINOGRADSKAYA, S.I., izdat.red.; ORESHKINA, V.I., tekhn.red.

[Manufacture of optical instruments; collected articles] Opticheskoe priborostroenie; sbornik statei. Moskva, Gos.nauchno-tekhn. izd-vo Oborongiz, 1961. 125 p. (Moscow. Moskovskoe vysshee tekhnicheskoe uchilishche. Trudy, no.103). (MIRA 14:12) (Optical instruments)

SVESHNIKOVA, Valentina Mikhaylovna; BREGETOVA, L.G., otvetstvennyy redaktor;
VINOGRADSKATA, S.R., redaktor izdatel'stva; FROLOV, P.M., tekhnicheskiy
redaktor.

[Osmotic pressure in Alpine plants] Osmoticheskoe davlenie u
vysokogornykh rastenii. Stalinabad, Isd-vo Akademii nauk tadzhikekoi
SSR. 1956. 54 p. (Trudy, vol. 45)
(Pamirs--Alpine flora)
(Osmosis)

STESHENKO, Anastasiiy Petrovna; SIDORENKO, G.T., otvetstvennyy redaktor; VINOGRADSKAYA, S.H., redaktor izdatel'stva; FROLOV, P.H., tekhni-cheskiy redaktor

[Improving desert pastures in the Pamirs] Uluchshenie pustynnykh pastbishch na Pamire. Stalinabad, Izd-vo Akademii nauk Tadzhikskoi SSR, 1954. 21 p. (Nauchno-populiarnaia biblioteka, no.28) (MIRA 9:8) (Pamirs--Pastures and meadows)

egyeten kerataran anakan kebebahan kerebahan k

### VINOGRADSKAYA, S.S.

Changes in the chemical composition of the roe of certain fishes of the Black Sea in the progress of maturation. Zool.zhur.33 no.1: 139-148 Ja-F 154. (MLRA 7:2)

1. Karadagskaya biologicheskaya stantsiya Akademii nauk Ukrainskoy SSSR. (Black Sea--Fishes) (Fishes--Black Sea)

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#### CIA-RDP86-00513R001860010012-2 "APPROVED FOR RELEASE: 09/01/2001

sov/119-58-10-9/19

AUTHORS:

Berliner, M. A., Candidate of Technical Sciences,

Vinogradskaya, V. B., Engineer

TITLE:

Automatic Conductimetric Instrument for Concentration

Measurements (Avtomaticheskiy konduktometricheskiy kontsentra-

tomer)

PERIODICAL:

Priborostroyeniye, 1958, Nr 10, pp 22-24 (USSR)

ABSTRACT:

The instrument mentioned above was devised at the

Laboratory for Automation of the Central Research Institute of the Leather and Shoe Industry (TSNIKP).

Graphite of the type WG -4 from the Kudinovo factory is used as electrode material. The turned cylindrical graphite bars are pressed into cylindrical little plastic tubes according

to their use. Three different types are shown.

Thermosensitive resistors MMT-9, MMT-4 are used for the

automatic compensation of the temperature.

With the electrodes and thermosensitive resistors mentioned the error of temperature measurement - within one temperature range of from + 10 to + 15 amounted to less than 0,5 - 0,75%

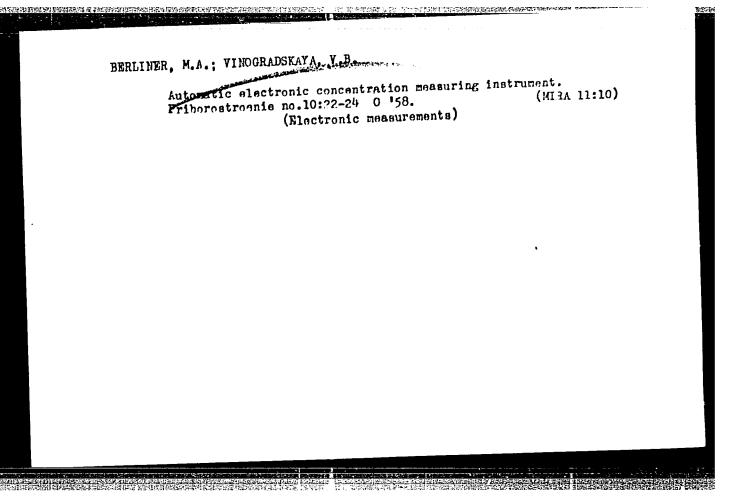
Card 1/2

of the maximum deflection of the concentration measuring

SOV/119-58-10-9/19
. Automatic Conductometric Instrument for Concentration Measurements

instrument. The apparatus EMD-212 is used as amplifier. The scale is calibrated individually for each liquid. A long test period with the various solutions [(NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub>, H<sub>2</sub>SO<sub>4</sub> + NaCl] showed that the readings could always be reproduced. There are 3 figures.

Card 2/2



37538 s/197/62/000/004/001/001 B104/B102

18.7.100 AUTHORS:

Vinogradskaya, Ye., Molchanova, G.

TITLE:

Regeneration of the initial structure of alloys

PERIODICAL:

Akademiya nauk Latviyskoy SSR. Izvestiya, no. 4, 1962,

TEXT: The occurrence, growth, and loss of the magnetic phase of an alloyed steel (0.12% C, 12.93% Mn, 0.18% Co, 1.61% Cu) during / A samples and A phase transitions were investigated with a magnetometer. Samples 4 mm in diameter and 70 mm long were heated to 850°C, slowly cooled to -196°C in the bath of the magnetometer, and again heated up to 600°C and higher temperatures. At the 600°C, austenitic transformation was

complete. During a second cooling to - 196°C the samples did not undergo a from phase transition. Higher temperatures in this treatment (>tAf)

Card 1/2

S/197/62/000/004/001/001 B104/B102

reduced the stability of the forhase during the cooling process. When the samples were heated up to  $850^{\circ}\mathrm{C}$ , they became completely unstable. Another cooling to  $-196^{\circ}\mathrm{C}$  produced the same amount of x-phase as had been obtained in the first phase transition. The original structure of slightly deformed samples was completely restored by annealing them at the table of the same amount of x-phase as had been obtained in the first phase transition. The original structure of slightly deformed samples was completely restored by annealing them at the table of the same amount of x-phase as had been obtained in the first phase transition. The original structure of slightly deformed samples was completely restored by annealing them at the table of the same amount of x-phase as had been obtained in the first phase transition. The original structure of slightly deformed samples was completely restored by annealing them at the table of the same amount of x-phase as had been obtained in the first phase transition. The original structure of slightly deformed samples was completely restored by annealing them at the table of table o

ASSOCIATION: Institut avtomatiki i mekhaniki AN Latv. SSR

(Institute of Automation and Mechanics AS LatSSR)

SUBMITTED: November 23, 1961

Regeneration of the initial structure ...

Card 2/2

VINOGRADSKAYA, Ye.; MOLCHANOVA, G.

Reconstitution of the initial structure of alloys. Vestis Latv ak no.4:27-31 '62.

1. Institut avtomatiki i mekhaniki AN Latviyskoy SSR.

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

3/123/62/000/008/016/016 A004/A101

AUTHORS:

Vinogradskaya, Ye. A., Molchanova, G. A., Prosvirin, V. I.

TITLE:

The specific features of phase transformations in transition type

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 8, 1962, 2, abstract 8012 (V sb. "Prevrashcheniya v splavakh i vzaimodeystviye faz".

Riga, AN LatvSSR, 1961, 3-19)

The authors have plotted hysteresis loops of  $\gamma > \infty$  and  $\alpha \to \gamma$ . transformations for a group of steels of the transition class, which are characterized by a variable nickel and aluminum content. These loops, showing the TEXT: nature and kinetics of transformations, made it possible to establish the "critical" temperatures of martensite transitions. It was found that alloys of this category containing 7.75% nickel at a Cr-content of 15% pertain to the group of steels whose austenite is stable down to -78°C. If the Cr-content is reduced to 12.5%, the nickel content of the alloy should be increased to 9.5% to obtain a stable austenitic state. Increasing the heating temperature from 850 to 1,050°C considerably affects the kinetics of all subsequent transformations.

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S/123/62/000/008/016/016 A004/A101

The specific features of phase ...

If the temperature is increased, a diffusion of the secondary phases is taking place, which results in the solid solution being enriched with alloying elements, increasing its stability. Therefore, steels of this category may not have a martensite transformation after high-temperature heating. A protracted holding of the steels at such high temperatures as 850 - 950°C leads to precipitation processes of excess alloying elements and compounds from austenite and to a decomposition of  $\hat{c}$ -ferrite into a mixture consisting of  $\gamma^{i}$  and carbides. In both cases, the formation of less alloyed austenite promotes a more complete martensite transformation during the subsequent cooling. The preceding heat treatment, during which  $\gamma - \infty$  and  $\alpha - \gamma$   $\gamma$  transformations were taking place, lowers the stability of austenite formed at high-temperature heating and contributes to its more complete transformation during the subsequent cooling. Hardening is effected up to 500°C in the case of a partial or full martensite transformation preliminarily taking place in the steel. The more complete the martensite transformation, the more considerable is the effect of precipitation hardening. A hardening of the steels may take place as a result of the secondary phase precipitating from the austenite subjected to phase workhardening in the process of martensite transformation. The energy additionally imparted to the steel on account of deformation during phase workhardening lowered the stability

X

Card 2/3

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The specific features of phase ...

S/123/62/000/008/016/016 A004/A101

of austenite during heating and moreover, caused a precipitation of the secondary phases at a lower temperature. High-temperature hardening (700 - 750°C) is accompanied by diffusion processes of precipitation in the solid solution and can be observed in those cases in which the steel is not undergoing a preliminary martensite transformation during the heat treatment. Hardening is taking place during the precipitation of secondary phases from the solid \( \cappa \)—solution which is analogous to the hardening of austenitic and heat-resistant steels.

[Abstracter's note: Complete translation]

Card 3/3

VINOGRADSKAYA, Ye.A. [Vynohrads'ka, E.A.]

Materials on the mycoflora of fruit and berry corps of Kiev
Province. Visnyk Kyiv.un. no.1. Ser.biol. no.2:19-25 '58.

(MIRA 16:4)

(KIEV PROVINCE—FUNGI, PHYTOPATHOGENIC)

(KIEV PROVINCE—FRUIT—DISEASES AND PESTS)

SHEMYAKIN, M. M.; VINOGRADOVA, Ye. I.; FEYGINA, M. Yu.; ALDANOVA, N. A.

Densipeptides. Part 17: Cyclization of linear tetra-and octalepsipeptides. P. Zhur. ob. khim. 34 no.6:1798-1803 (MIRA 17:7) de '04.

1. Institut khimii prirodnykh soyedineniy AN SSSR.

#### CIA-RDP86-00513R001860010012-2 "APPROVED FOR RELEASE: 09/01/2001

VINOGRADSKAYA, YE. L.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 340 - I

BOOK

Call No.: TN672.78

Author: KONTCROVICH, I. YE, and VINOGRADSKAYA, YE. L.

TRANSFORMATION OF AUSTENITE TO LOW CARBON STEEL WITH VARIABLE CONTENTS OF Full Title:

CHROMIUM AND MANGANESE

Transliterated Title: Prevrashcheniye austenita v malouglerodistoy stali s peremennym

soderzhaniyem khroma i margantsa

Publishing Data

Originating Agency: All-Union Scientific Engineering and Technical Society of Machine

Builders. Urals Branch

Publishing House:

State Scientific and Technical Publishing House of Machine Building

Literature ("Mashgiz")

Date: 1950

No.: pp.: 7

No. of copies: 3,000

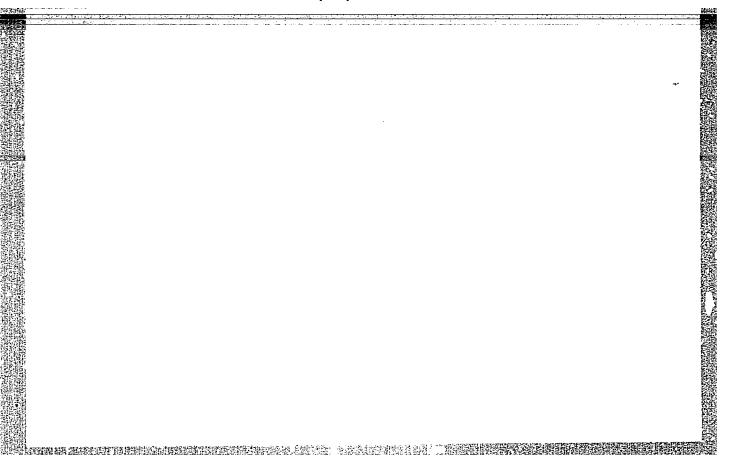
Text Data

This is an article from the book: VSESOYUZHOY: NAUCHNOYE INZHENERWOTEKHNICHESKOYE OBSHCHESTVO MASHINOSTROITELEY. URAL'SKOYE OTDELENIYE, THEREAL TREATMENT OF METALS -Symposium of Conference (Termicheskaya obrabotka metallov, materialy konferentsii)

(p. 73-80), see AID 223-II Coverage:

The experimental data on the effects of different concentrations of chromium and manganese on the alloyed steels stability and on transformation of austerit are discussed on the basis of the micrographic and magnetometric analysis.

1/2



VINOGRADSKAYA, Ye.L. The Influence Exercised by Chemical Composition on Bome Rules

On the Occasion of Mentangite Transformation (Mission) WINOGRADSKAJA, E.L., KRESLINA, G.A., CB, d tech. BC. The Intluence Exercised by Unemical Composition on some months on the Occasion of Martensite Transformation. (Williamia on the occasion of martensite Transformation. (Willanija ohimtscheskogo sostawa na nekotoryie zakonomernosti martensit nyoh prewruschtschenij, Hussian).
Latvijas PSR Zinatnu Akad. Westis, 1957, Vol 1, Nr 2, pp 153 -AUTHOR: TITLE The investigations of transformations in the cast of colored The investigations of transformations in the cast of colored metals led to completely changes conceptions concerning the nature metals led to completely changes conceptions concerning the nation of transformation from the phase to the syntaxian has available to the syntaxian and the 160, (U.S.S.R.) or transformation from the sphase to the sphase anomalies of transformations, be explained by can, compared to typical phase transformations, be explained by the fact that they occur as a result of low aperov conditions Received: 5 / 1957 PERIODIA CAL: can, compared to typical phase transformations, be explained to the fact that they occur as a result of low energy conditions of storic thermal confidence. the fact that they occur as a result of low energy conditions
of atomic thermal oscillations. The character of the transformaof atomic thermal oscillations. The character of the transformation to the tion (cast) is shown by table 2. In order to determine to the tion (cast) is shown by transition (corresponding to tion (start of the "inverse" the samples were slowly heated that the samples were subject that the transformation the samples were subject that the transformation the samples were subject that the samples were subject that the samples were subject to the transformation to the samples were subject that the samples were subject that the samples were subject to the samples ABSTRACT : ed to low-temperature cooling down to " -194" onemical compo-sition exercises hardly any influence at all on the temperature of the domain of Minwargan transformation Bition exercises hardly any influence at all on the temperature of the domain of "inverse" transformation ( ). In order to the domain of "inverse" (of the AS. determine structural stress (of the PRI SUB. AVA1 Card

Card 1/2

APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R00186001001

Vinogradskaya, Ye. L., Candidate of Technical Sciences and Kreslina, G.A., Ing. (Mechanical Engineering AUTHORS:

Laboratory, Ac.Sc., Latvia).

On certain relations governing direct and reversible martensitic transformations. (O nekotorykh TITLE:

zakonomernostyakh pryamogo i obratnogo martensitnogo

prevrashcheniya).

"Metallovedenie i Obratbotka Metallov" (Metallurgy and Metal Treatment), 1957, No.5, pp.12-15 (U.S.S.R.) PERIODICAL:

4 mm dia., 70 mm long specimens made of an iron base alloy containing 0.06% C, 13.2% Mn, 0.2% Cu and 2.12% Co ABSTRACT:

were investigated by means of a magnetometric method were investigated by means of a magnetometric modeled described in earlier work (1) and (2) and the results are evaluated from the point of view of the change of are evaluated from the point of view of the change of the quantity of the a-phase in the specimen. The temperature range of martensite transformation was temperature range of martensite transformation was determined by heating the specimen to 900°C, superdetermined by heating the specimen to 900°C and cooling at cooling it in a liquid bath to 300°C and cooling at cooling it in a thermostat to -194°C followed by slow heat-

ing at room temperature. Furthermore, the temperature range of a to  $\gamma$  transformation, the influence of the stresses on the kinetics of  $\gamma$  to a and a to  $\gamma$  transformations were investigated and also the respectively. ations were investigated and also the re-establishment of the original structural state. A full hysteresis

loop of the  $\gamma$  to a and the a to  $\gamma$  transformation cycle

Card 1/2

On certain relations governing direct and reversible martensitic transformations. (Cont.)

was obtained; for the investigated alloy the hysteresis of the initial transformation amounts to about 240°C. The stabilisation of the Y-stage depends on a number of factors, the most important being the temperature to which the specimen is heated after the first  $\gamma$  to a-transformation. The maximum degree of stabilisation during the second y to a transformation is achieved in the case of heating to a temperature corresponding to the end of the  $\alpha$  to  $\gamma$  transformation. Stabilisation is obviously caused by stresses in the Y-phase which occur during the  $\gamma$  to  $\alpha$  and during the  $\alpha$  to  $\gamma$  transformations; these stresses "distort" the Y-phase and these distortions are not removed, not even when the a-phase ceases to exist during  $\alpha$  to  $\gamma$  transformation. These distorting stresses can be removed only by super-heating the γ-phase to 170 to 200°C above the full transformation temperature, after which the ability of the Y-phase to full martensitic transformation during subsequent cooling is re-established. Increased stabilisation of the y-phase during complete and incomplete  $\gamma$  to  $\alpha$  and  $\alpha$  to  $\gamma$  transformation cycles is of practical interest. Re-hardening of hardened components if requently unjustified since heating above the critical point removes the influence of the previous history of the material on its subsequent properties. 3 graphs and 2 Russian references.

Card 2/2

## CIA-RDP86-00513R001860010012-2 "APPROVED FOR RELEASE: 09/01/2001

S/2685/63/000/002/0023/0030 ACCESSION NR: AT4040796

AUTHOR: Vinogradskaya, Ye. L.; Molchanova, G. A.

TITLE: Changes in phase structure and hardening pattern of high alloy steels in the process

SOURCE: AN LaiSSR. Institut avtomatiki i mekhaniki. Prevrashcheniya v splavakh i vzaimodeystviye faz, no. 2, 1963, 23-30

TOPIC TAGS: steel, plastic deformation, high alloy steel, steel structural changes, steel phase conversion, steel hardening pattern, heat treatment, precipitation hardening, phase conversion, deformation level, work hardening, annealing

ABSTRACT: Four compositions (see Table 1 in the Enclosure) were tested for the effects of heat treating procedure (air cooling after 20 min. at 850, 950, 1050 or 1200C, preceded by annealing for 3 hrs. at 750C) and deformation levels (cold forming to 3-18% deformation) on changes in phase structure and hardness. In addition, samples of alloy No. 1 were hardened by air cooling from 850, 1050 or 1200C, then step-tempered from 350 to 1000C at 50° intervals of 1 hour duration, to determine effects of deformation levels (4.7-17.9%) on processes of precipitation hardening. It is concluded that the pattern of changes in phase structure and properties of an alloy are governed by its phase stability. Alloys containing high proportions

#### ACCESSION NR: AT4040796

of austenite obtained by high temperature hardening are not subject to phase conversions as a result of plastic deformation. Strength increases (from 200 to 300 kg/mm²) as a result of excess phase separation from solid solution and work hardening. Supplemental annealing increases hardening still further, especially above 650C, due to precipitation hardening caused by submicroscopic separations of secondary phases. Plastic deformation of alloys with less stable austenite, obtained by hardening from lower temperatures, leads to hardening due to partial \(\chi\) to \(\mathcal{C}\) conversions and work hardening processes. Annealing at 500C enhances hardness further, to levels of 500 kg/mm². "The authors thank Ya. M. Potak (Candidate in the Technical Sciences) and V. I. Chugunov (Engineer) for preparing the alloys." Orig. art. has:

ASSOCIATION: Institut avtomatiki i mekhaniki AN LatSSR (Institute of Automation and Mechanics, AN LatSSR)

SUBMITTED: 00

DATE SEL: 15Jul64

ENCL: 01

SUB CODE: MM

NO REF SOV: 010

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Card 2/3 2

#### 

ACCESSION NR: AT4040797

S/2685/63/000/002/0031/0040

AUTHOR: Kontorovich, I. Ye.; Vinogradskaya, Ye. L.

TITLE: Oxidation resistance of low and high alloy steels at high temperatures

SOURCE: AN LatSSR. Institut avtomatiki i mekhaniki. Prevrashcheniya v splavakh i vzaimodovstviye faz, no. 2, 1963, 31-40

TOPIC TAGS: steel, steel oxidation; low alloy steel, high alloy steel, oxidation resistant steel, steel A, steel U8, steel 38KhA, steel 40KhNMA, steel EZh-2, steel B, steel V, steel G, steel D, steel calorization film composition, high temperature diffusion

ABSTRACT: Samples of nine steels (see Table 1 in the Enclosure) were tested for up to 210 hrs. at 900C or up to 50 hrs. at 1000C, either prior to or after calorizing (49% Al, 49% Al<sub>2</sub>O<sub>3</sub>; 2% NH<sub>4</sub>Cl, 5 hrs. 900C), to determine the effects of chemical composition on resistance to oxidation at high temperatures. It was found that calorizing improves oxidation resistance of high alloy steels. For steels with the highest resistance, improvement was noted during the initial oxidation period, while the effect was evident over extended periods for steels with substandard initial resistance. Chemical composition of the core continued to affect oxidation

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

ACCESSION NR: AT4040797

resistance even after calorizing, due both to diffusion processes occurring during prolonged exposures to high temperatures and, equally so, to the varying composition of surface films forming during the calorization of various steels. Orig. art. has: 1 table and 4 graphs.

ASSOCIATION: Institut avtomatiki i mekhaniki AN LatSSR (Institute of Automation and Mechanics, AN LatSSR)

SUBMITTED: 00

DATE SEL: 15Jul64

ENCL: 01

SUB CODE: MM

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	EZh-2 0.11	7 0.65 0.40 1.09 0.65 0.37 0.77 3 0.47 0.32 13.1 1.3 0.71 15.3		),25	
•	U8 38KhA 40KhNMA EZh-2 B V 0,48 0,4	8 0,35 0,37 1,09 0,55 0,40 1,09 0,77 0,32 13,1 16,3 0,71 16,3 0,53 0,60 0,34 14,2 0,81 0,56 22,5	25.4 — 6 6.2 1.5 15.4 2.5 0 10.7 2.33	.25 0.15 .25 —	
	G J	0,00   0,00   22,5	10,7   2,33		
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				<i>;)</i>	
Card 3/3	·	•		·	
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\$/2685/63/000/002/0003/0021

ACCESSION NR: AT4040795

AUTHOR: Vinogradekaya, Ye. L. (Candidate of technical sciences); Prosvirin, V. I.

(Doctor of technical sciences); Molchanova, G. A.

TITLE: Properties and structure of austenitic steel

SOURCE: AN LatSSR. Institut avtomatiki i mekhaniki. Prevrashcheniya v splavakh i vzaimodeystviye faz, no. 2, 1963, 3-21

TOPIC TAGS: steel, steel structure, steel mechanical property, austenitic steel, transition steel, plastic deformation, heat treatment, alloy steel, ferrite

ABSTRACT: At the present time, considerable attention is being paid to the austenitic-ferritic alloys - the so-called transition grade steels. The strength of these steels is determined by martensitic transformation, and can be increased by aging as well as by strain hardening. The present authors investigated a steel of the transition class (0.07% C; 15.0% Cr; 5.9% Ni; 2.5% Mo; 1.2% Al) in order to study its structure and properties in relation to heat treatment and various degrees of plastic deformation. Specimens 5 mm in diameter and 20 mm long after 20 min. annealing at temperatures of 1200, 1050, 950 and 850C, with subsequent air cooling, were examined microscopically, and the effect of plastic deformation was investigated on specimens of varying original size, selected so as to obtain a

Card 1/3

ACCESSION NR: AT4040795

5 x 20 mm specimen after deformation. The results of phase transformation and microhardness tests are graphed. It is concluded that two basic phases are preserved in the structure of austenitic-ferritic steel after all possible variations in treatment - austenite and delta-ferrite as separate grains of various sizes and In the process of high-temperature annealing, diffusional interchange may occur between the grains of austenite and delta-ferrite, producing variations in the concentration of alloying elements in these phases. As the result of such an exchange, the properties and structure of the grains are changed, and correspondingly also the final properties of the alloy. As shown by microhardness distribution, grains of austenite and delta-ferrite are heterogeneous with regard to their composition, even within the limits of a micrograin. Cold plastic deformation strengthens austenite grains to a higher degree than delta-ferrite grains. Because of the considerable heterogeneity in composition of the grains, their strengthening due to phase transformation, precipitation, or plastic deformation is non-uniform. Drawing of an alloy at 600 C reduces the strength of the grains in phases obtained by quenching from high temperatures (1050; 1200 C) and strengthens the grains in phases obtained by quenching from low temperatures (850 C). Orig. art. has: 5 graphs and 25 photomicrographs.

2/3 Card

ACCESSION NR: AT4040795

ASSOCIATION: Institut avtomatiki 1 mekhaniki AN LatSSR (Institute of Automation and Mechanics, AN Lat SSR)

SUBMITTED: 00 ENCL: 00

SUB CODE: MM NO-REF SOV: 011 OTHER: 005

ACC NR: AP7004066

SOURCE CODE: UR/0190/67/009/001/0254/0255

THE PROPERTY OF THE PROPERTY O

AUTHOR: Vinogradskaya, Ye. L.

ORG: none

TITLE: Conference on the mechanics of polymers

Vysokomolekulyarnyye soyedineniya, v. 9, no. 1, 1967, 254-255 SOURCE:

TOPIC TAGS: chemical conference, polymer chemistry, morphologht to the polymer

structure, mechanical property

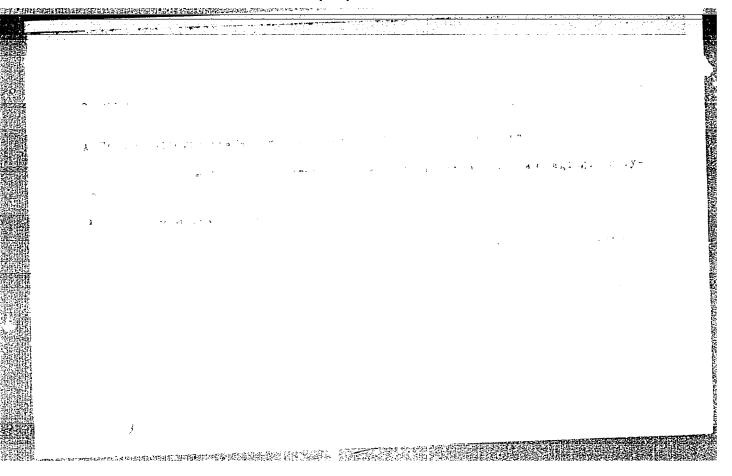
ABSTRACT: The First All-Union Scientific Conference on the Mechanics of Polymers was held in Riga on November 10-12, 1965. The Conference was attended by over 800 representatives of scientific research and industrial organizations, and institutions of higher education. The Conference was concerned with the development of the three basic trends of the mechanics of polymers: theory of strength, theory of deformation, and long-time stability of plates and shells. The following list gives the authors and subjects of selected papers from the proceedings of the conference: S. N. Zhurkov, fluctuation theory of strength; G. M. Bartenev, athermic and thermal failure mechanism and time dependence of the strength of brittle polymers; S. V. Serensen, static aspect of the mechanical strength of glass-reinforced plastics; T. I. Sogolova, controlling the mechanical

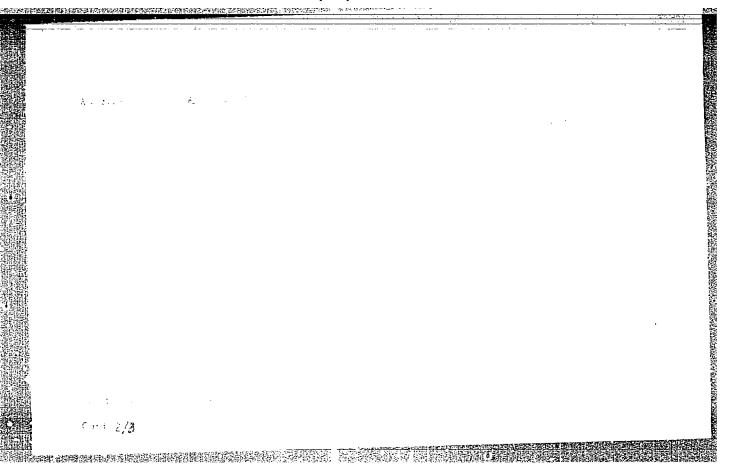
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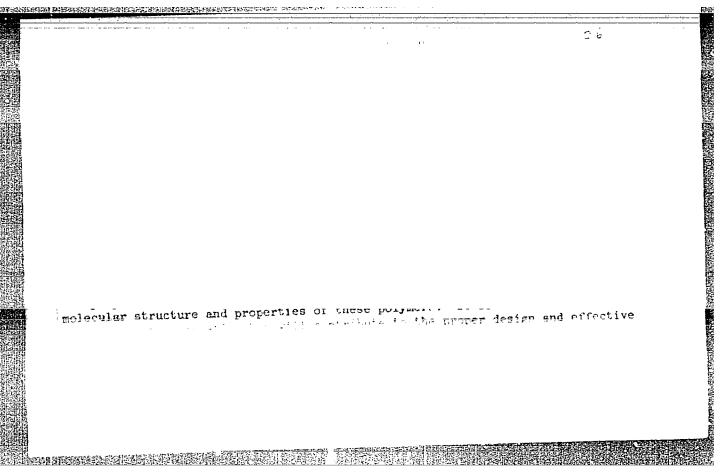
properties of polymers by changing their morphological forms; Ye. L. Vinogradskaya, relationship between the morphological forms and the physicomechanical properties of certain polymers; L. A. Faytel'son and I. P. Briyedis, dynamic characteristics of polymer systems with a high degree of filling; Yu. S. Urzhumtsev and S. L. Skalozub, acoustic fatigue of certain polymers; V. A. Latishenko, nondestructive tests for the mechanical properties of polymeric materials. The proceedings of the Conference were said to have greatly enhanced the collaboration of mechanical engineers and chemists in the field of the mechanics of polymers. The importance of such collaboration was stressed in the introductory paper by A. K. Malmeyster, president of the Organizing Committee.

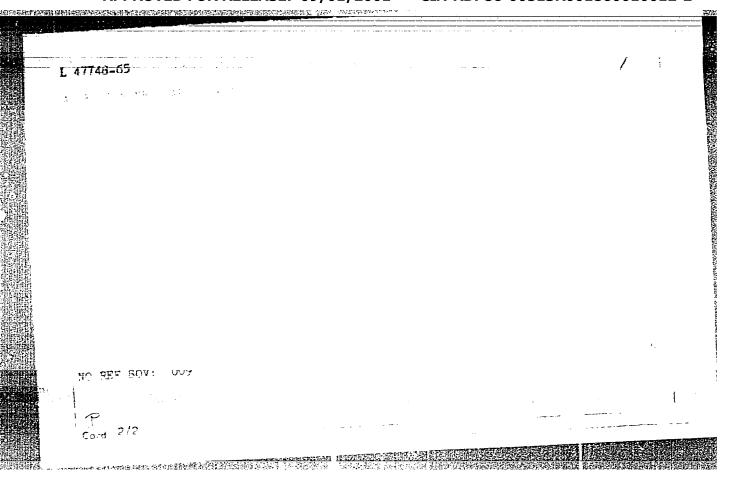
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Cord 2/2









PROSVIRIN, V.I., doktor tekhn.nauk, red.; VINOGRADSKAYA, Ye.L., kand. tekhn. nauk, red.; TARASOV, B.Ya., red.; TEYTEL BAUM, A., red.

[Transformations in alloys and the interaction of phases]
Prevrashcheniia v splavakh i vzaimodeistvie faz. Riga, Izdvo AN Latv.SSR. Vol.2. 1963. 94 p. (MIRA 17:4)

l. Latvijas Padomju Socialistiskas Republikas Zinatmu Akademija. Automatikas un mekhanikas instituts.

s/685/61/000/000/001/004 D205/D301

Vinogradskaya, Ye.L., Molchanova, G.A., and AUTHORS:

Prosvirin, V.I.

Peculiarities of phase transformations in steels of TITLE:

the transition class

Akademiya nauk Latviyskoy SSSR. Institut avtomatiki i mekhaniki. Prevrashcheniya v splavakh i vzaimodeyst-SOURCE:

viye faz. Riga, 1961, 3 - 49

TEXT: The present work is concerned with the phase transformations occuring in high resistance, low carbon steels lying between the martensitic and austenitic types. A critical survey of the published work on the subject precedes the presentation of the performed investigation. Two groups of alloys have been studied. The first group includes alloys having constant Cr and Mo contents, (15.0 and 2.5 % respectively) and variable Ni and Al contents (in ranges 5.9 - 7.75 and 1.2 - 0.7 % respectively). The second group includes alloys having a lower Cr content - 12.5 %, Ni from 7.88 to 9.57 %; Al from 1.4 to 0.9 % and Mo - 2.5 % as in the first group. The carbon Card 1/4

S/685/61/000/000/001/004 D205/D301

Peculiarities of phase ...

Card 2/4

content of all alloys was 0.07 %. In the range 5.9 - 9.57 % Ni steels ranging from austenitic-martensitic have been prepared. bferrite was revealed in both groups, its amount in the first group being somewhat higher. In every group, however, the amount of 6 ferrite varied from alloy to alloy. After smelting, the specimens were forged to rods of 7 - 8 mm radius, quenched from 1050°C and were lorged to rous at 750°C. The obtained state was considered annealed for 3 hours at 750°C. The obtained state was considered as the starting structure. The kinetic and the quantitative relations of the phase changes were investigated by the magnetic method. The microstructure and hardness of the alloys were also measured. Hysteresis loops of the  $\gamma \rightarrow \alpha$  and  $\alpha \rightarrow \gamma$  transformations in the +700 to -78°C temperature range are given. From these loops the temperatures of the manufactures of the manufactures of the manufactures of the manufactures. peratures of the martensitic transformations were determined. It was found that alloys containing 15 % Cr and 7.75 % Ni preserve their austenitic structure down to -78°C. If the Cr content is lowered to 12.5 %, the Ni content is to be increased to 9.5 % in order to ensure the stable austenitic state. The thermal history preceding the cooling-neating cycle of the hysteresis loop has a large influence on the loop itself. The increase of the pre-heating tem-

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Peculiarities of phase ...

perature from 850 to 1050°C causes the dissolution of the secondary phases and thus the solid-solution is enriched by alloying elements and its stability increases, the martensitic transformations being prevented. Prolonged pre-heatings at high temperatures cause separation of the excess of the alloying elements from the austenite and the decomposition of the  $\delta$ -ferrites into  $\gamma^{\dagger}$  and carbides, enhancing the martensitic transformations during the hysteresis cycle. A complex secondary thermal treatment in which the  $\gamma \longrightarrow \alpha$  and  $\alpha \longrightarrow$ γ transformations take place enhances the martensitic transformations during the hysteresis cycle. The quantitative data on the influence of pre-heating temperature and the final cooling temperature on the phase composition and hardness of the alloys (Vickers degrees) are given for alloys of the I and II groups. The influence of annealing for 1 hour in the 300 - 700°C range was investigated. The annealing strengthens the alloys, but the exact character of this depends again on the previous history of the alloy. If the alloy did previously undergo a martensitic transformation, the highest strengthening occurs below 500°C, otherwise the strengthening occurs at 650 - 750°C and is quantitatively lower than in the first case. The influence of ageing performed at temperatures from 400 to Card 3/4

基地种种类型性性中型的过程的现在分词形式的全球性的特别的形式的特别的大型等的企业的主义的企业的主义的主义的主义的主义的主义的主义的现在<mark>计算对地对对主义和现在的对外主义和对于</mark>

Peculiarities of phase ...

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750°C for up to 36 hours was also studied. Again, the hardening during ageing depends upon the annealing. There are 21 figures, 6 tables and 22 references: 11 Soviet-bloc and 11 non-Soviet-bloc. The 4 most recent references to the English-language publications read as follows: Gibraith, Austral. Machinery, 11, 1958, 117, 23-31; Iron Age, 181, 1958, 22, 88-89; White, Metal Progra, 73, 1958, 6, 74-78; West, Metals, 15, 1957, 10, 62.

Card 4/4

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

PROSVIRIN, V.I.; VINOGRADSKAYA, Ye.L.; MOLCHANOVA, G.A.

Phase transformations in transition-type steels. Fiz. met. i metalloved. 11 no. 5:775-781 My '61. (MIRA 14:5)

1. Institut avtomatiki i mekhaniki AN Latviyskoy SSR. (Steel--Metallography) (Phase rule and equilibrium)

PROSVIRIN, V. (Riga); VINOGRADSKAYA, Ye. (Riga); MOLCHANOVA, G. (Riga)

Phase changes of transient class steels by deep cooling. Vestis (EEAI 10:9:10)

Latv ak no.10:65-70 160.

1. Akademiya nauk Latviyskoy SSR, Institut mashinovedeniya.

(Steel)

PROSVIRIN, V. (Riga); VINOGRADSKAYA, Ye. (Riga); MOLCHANCVA, G. (Riga)

Dispersion hardening of some high alloy steels. Vestis Latv ak no.12:
39-42 '60.

1. Akademiya nauk Latviskoy SSR, Institut energetiki i elektrotekhniki.

(Steel)

VINOGRADSKAYA, Ye.L., kand.tekhn.nauk; MOLCHANOVA, G.A., inzh.

Effect of martensite transformation of fine crystal structure.

Metalloved. i term. obr. met. no. 1:20-25 Ja '61. (MIRA 14:1)

1. Institut mashinovedeniya AN Latviyskoy SSR.

(Iron—Metallography)

(Phase rule and equilibrium)

S/126/61/011/005/012/015 E073/E335

TO DESCRIPTION RECEIPED THAT FOR THE PROPERTY OF THE PROPERTY

AUTHORS: Prosvirin, V.I., Vinogradskaya, Ye.L. and

Molchanova, G.A.

eparati ja prakamentininga katabahahan

TITLE: On Phase Transformations in Steels of the

Intermediate Class

PERIODICAL: Fizika metallov i metallovedeniye, 1961,

Vol. 11, No. 5, pp. 775 - 781

TEXT: Steels of the intermediate class, i.e. intermediate from martensitic to austenitic, are characterised by a combination of properties and phase-transformations which are characteristics for both martensitic and austenitic steels. The results are described of investigations of phase-transformations in three steels of this class. Of these, transformations in three steels of this class. Of these, Steel 1 is nearer to the martensitic class, Steel 3 is nearer to the austenitic and Steel 2 occupies an intermediate position between the two. The contents of C, Cr and Mo were maintained constant and the quantities of Ni and Al were slightly varied (C 0.07%, Mn 0.07%, Si 0.4%, Cr 12.5%, Card 1/7

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On Phase Transformations ....

Ni 7.8-8.8%, Al 1.4-1.1%). The ratios of the yield point to the UTS for the Steels 1, 2 and 3 after normalisation treatment at 1 050 °C are, respectively, 0.76, 0.23, 0.21.

After a second normalisation treatment at 950 °C and additional cooling to -70 °C, followed by subsequent ageing at additional cooling to reached values of 0.9. For a maximum value of  $\sigma_{0.2T} = 150 \text{ kg/mm}^2 \text{fr Steel 1}$ ,  $\delta = 14\%$ and  $\Psi$  = 54% were achieved. A feature of these steels is that they occupy a very narrow range as regards composition, which involves practical difficulties during manufacture. increase in the hardening temperature from 850 - 1 050 (air quenching) brings about a large increase in the quantity of the residual austenite, particularly in Steel 3 which is nearer to the austenitic-class steel. Fig. la shows the 'C, on the quantity influence of the hardening temperature, of the residual austenite, A, %, and on the hardness Fig. 16 shows the decrease in the quantity of the austenite  $(\triangle A, \%)$  and the increase in the hardness  $\triangle$  HV as functions Card 2/7

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S/126/61/011/005/012/015 E073/E335

On Phase Transformations ....

of the hardening temperature, °C, after cooling the specimens to -194 °C. The influence of stepwise heat was also investigated. All the steels were subjected to stepwise heating for one hour at 350, 500, 650 and 800 °C for one hour, with intermediate cooling at room temperature, after initial cooling to 15 °C and after cooling to -194 °C. Regardless of the original hardening temperature the steels hardened considerably (by 40-50%) as a result of subsequent heating to 500 °C. However, the quantity of austenite remained practically unchanged and this indicated that precipitation-hardening occurred; reheating even to 650 °C resulted in a decrease in hardness which was still higher than the original value; the autenite quantity increased by about 12% for all the tested original hardening temperatures. A further heating of the specimens to 800 °C brought about a further decrease in hardness and a decrease in the quantity of austenite. The increase in the quantity of austenite on heating to 650 °C is due to reversible martensitic transformations during heating. To reveal more clearly the nature of the hardening Card 3/7

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On Phase Transformations ....

of the hardened steels during stepwise heating, the temperature steps were made more close. Each specimen was first heated to 350 °C for one hour, cooled to 20 °C, again heated to 400 °C, cooled to 20 °C, reheated to 450 °C, etc., the maximum temperature being 1 050 °C. The preliminary heat-treatment was hardening from 950 and 1 050 °C and part of the specimens were first subjected to cooling to -78 °C. The obtained results show that the increase in hardness of the alloy on heating it to 500-550 °C will be the more intensive the more complete the martensitic transformation. The close temperature steps used in experiments have revealed a very interesting feature, namely, that regardless of the original heat-treatment the steel tends to reach a certain limit hardness of about 300 Vickers units, which is conserved up to temperatures of 900-950 °C. The nature of precipitation—hardening during ageing was investigated for hardened steel, heated to 400, 450, 500, 700 and 800 °C for durations of 1 to 36 hours; part of the specimens were deep-cooled to Card 4/7

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On Phase Transformations .... S/126/61/011/005/012/015 E073/E335

-194 °C for 20 min prior to heating. The results confirmed that precipitation-hardening in the temperature range 400 - 500 °C was associated with rejections from phase-hardened austenite. If the martensite point was not reached during hardening but the final cooling temperature was near to the martensite point, a slow precipitation-hardening was also observed. This may be due to diffusional development of martensitic nuclei which do not develop into martensitic transformation. Phase-hardening by precipitation-hardening produces hardening of the austenite which is unstable and decreases on prolonged heating to 500 °C. Higher heating temperatures produced active processes of rejection, dissolution and coagulation. Results obtained for steels aged at 700 and 800 °C indicated that regardless of the original state, steel heated to temperatures up to 700 °C tended to reach a hardness of 300 kg/mm² after 36-40 hours. At 800 °C the process of coagulation of secondary phases was more intensive and had a considerable influence on the process of Card 5/7

**经验证的证据,我们就是我们的证据的证据,我们就是我们的证据,我们就是我们的证明,我们就是我们的证明,我们就是我们的证明,我们就是我们的证明,我们就是我们的证明,我们** 

S/126/61/011/005/012/015 E073/E335

On Phase Transformations ....

softening; at 800 °C both hardening and softening proceed simultaneously. There are 7 figures, 1 table and 10 references: 6 Soviet and 4 non-Soviet. The four English-language references quoted are: Ref. 3 - A. Gibraith, Austral Machinery, 1958, 11, No. 117, 23; Ref. 4 - (Review) Iron Age, 1958, 181, No. 22, 88; Ref. 5 - (Review) West Metals, 1957, 15, No. 10, 62; Ref. 6 - R. White, Metal Progress, 1958, 112, 51.

ASSOCIATION:

Institut avtomatiki i mekhaniki AN Latviyskoy SSR (Institute of Automation and Mechanics

of the AS Latvian SSR)

SUBMITTED:

August 29, 1960

Card 6/7

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001860010012-2"

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E111/E152

AUTHORS:

Vinogradskaya, Ye.L., Candidate of Technical Sciences, and Molchanova, G.A., Engineer

TITLE:

Influence of Martensite Transformations on Fine

Crystal Structure

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,

1961, No. 1, pp. 20-25

The relation between changes in individual parameters of fine crystal structure of phases and transformation effects has been reported (Refs 1-7). The authors describe their work on the fine crystal structure of gamma and alpha phases in the course of forward and reverse martensite transformations in an iron alloy with 0.16% 3, 13.8% Mn and 1.8% Cu. The fine structure was measured from the width of X-ray interference lines of the Kaseries (200) and (211) for the alpha and (220) and (311) for the gamma phases, with iron-radiation on a type YPC -70 (URS-70) installation. A definite region of the same specimen, heat treated to give first the forward and then the reverse transformation, was photographed. The degree of transformation was found with the aid Card 1/3

S/129/61/000/001/004/013 E111/E152

Influence of Martensite Transformations on Fine Crystal Structure of a magnetometer, as described by Ye.L. Vinogradskaya (Ref.8). The heat treatments and corresponding changes are shown in Fig.1 and Table 1 for an undeformed specimen. To observe the effect of external load on the fine crystal structure changes of alpha and gamma phases, the standard specimen was cooled to a low temperature and deformed by extension at room temperature to 2.1%. treatments and corresponding changes are shown in Fig. 2 and Table 2. This table also gives results (shown in Fig.3) when other deformation and heat treatments were included. The authors conclude that the state of both alpha and gamma phases changes in the forward and reverse martensite transformations; the observed stabilization of the gamma phase with prolonged holding at the critical temperature shows that there are factors additional to hardening which promote stabilization. Slight plastic deformation of the hardened specimen promotes relaxation of heterogeneous local stresses, which in the gamma-phase lattice favours additional transformation to alpha and, perhaps, growth of coherent scattering regions in the alpha -> gamma transformation. Card 2/3

\$/129/61/000/001/004/013 E111/E152

Influence of Martensite Transformations on Fine Crystal Structure

Plastic deformation at 20 °C of both hardened and untreated specimens has no effect on the critical temperatures of the reverse martensitic transformations, and the effect of plastic deformation is completely eliminated by suitable treatment. There are 3 figures, 2 tables and 10 Soviet references.

ASSOCIATION: Institut mashinovedeniya AN Latviyskoy SGR (Institute of Science of Machines,

AS Latvian SSR)

Card 3/3

# "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001860010012-2

\$/137/62/000/007/041/072 A057/A101

AUTHORS:

Vinogradskaya, Ye. L., Molchanova, G. A., Prosvirin, V. I.

TITEE:

Peculiarities of phase transitions in steels of the transient class

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 7, 1962, 23 - 24, abstract 71142 (In collection: "Prevrashcheniya v splavakh i vzaimodeystviye

faz". Riga, AN LatvSSR, 1961, 3 - 49)

Kinetics of phase transitions  $\gamma \rightarrow \alpha$  and  $\alpha \rightarrow \gamma$  in the temperature TEXT: interval from 700 to -78°C was investigated, as well as processes of separation and dissolving of secondary phases in the interval 350 - 1,050°C with two groups of steels containing the following alloying elements (in %). C 0.07, Gr 15, Ni 5.90 - 7.75, Mo 2.5, Al 0.70 - 1.20 (I) and C 0.07, Cr 12.50, Ni 7.88 - 9.57, Mo 2.5, Al 0.90 - 1.40 (II). The samples were heat-treated under different conditions. The investigation was carried out by microstructure, hardness, and magnetic methods. The obtained hystoresis loops of  $\gamma \rightarrow \alpha$  and  $\alpha \rightarrow \gamma$  transitions allowed the determination of the critical temperatures of martensitic transitions. It was determined that the austenite of steel I is stable down to -78°C, a stable aus-

Card 1/2

S/137/62/000/007/041/072 A057/A101

Peculiarities of ...

tenitic state of steel II can be obtained only with 9.5% Ni. A rise of the heating temperature from 850 to 1,050°C shows a considerable effect upon the kinetics of subsequent transformations; after a high-temperature heating martensite transformations can be absent due to an increased alloying of austenite. Long holding times at 850 and 950°C effect a separation of the alloying elements from austenite and decomposition of  $\delta$ -ferrite into a mixture  $\gamma'$ + carbides, resulting in an impoverishment of the austenite thus promoting a more complete occurrence of martensite transformation at the subsequent cooling. Strengthening is observed in tempering in the interval 300 - 700°C, which is more considerable and occurs at about 500°C in the presence of martensite transformation in the steel; and in the absence of martensite transformation it is less and occurs at higher tempering temperatures (650 - 750°C).

.G. Belyayeva

[Abstracter's note: Complete translation]

Card 2/2

VINOGRADSKAYD-YEZERSKAYM, M. M. YANOVSKIY, D.H., prof.; HADGORHAYA, H.I., nauchnyy sotrudnik; VINOGRADSKAYA-YEZERSKAYA, M.A.; GAMDZIY, G.P. Electron microscopy in hematology. Vrach.delo no.11:1185-1187 II 57. 1. Otdel klinicheskoy gematologii (zav. - prof. D.N.Yanovskiy) Ukrainskogo instituta klinicheskoy meditsiny im. akad. N.D. Strazhesko i laboratoriya etiologii opukholey (zav. - deystv. chlen AMN SSSR, prof. A.D. Timofeyevskiy) Ukrainskogo instituta epidemiologii i mikrobiologii Ministerstva zdravookhraneniya USSR. (HINCTRON MICROSCOPY) (BLOOD)

CIA-RDP86-00513R001860010012-2"

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# VINOGRAD-SKAYA-YEZERSKAYA, M. A.

"In Connection With the Therapeutic Use of Radioactive Phosphorus in Polycythemias and Chronic Leukoses," by M. A. Vinogradskaya-Yezerskaya, Division of Clinical Hematology (head, Prof. D. N. Yanovskiy), Ukrainian Institute of Clinical Medicine imeni Academician N. D. Strazhesko, Vrachebnoye Delo, No 10, Oct 56, pp 1011-1015

Tests were run on 15 chinchilla rabbits, 12 of whom received radioactive phosphorus in amounts of 1.5-2 millicuries per 60 kg of body weight.

Histopathologic studies showed significant hyperplasia of the bone marrow of all the rabbits that died or were sacrificed. There was dystrophy of all the organs and tissues and a congested appearance and edema of all the organs. Especially important changes appeared in the thickening of the walls of blood vessels.

Dynamic changes of the blood and punctate of bone marrow of the rabbits that were treated with radioactive phosphorus confirmed changes in hemopoietic organs. These changes depended on the quantity of radioactive phosphorus and were expressed by the stimulation of the reticular tissue of the bone marrow.

It was characteristic that after the administration of p32 was discontinued, hemopoiesis was restored spontaneously and the animals improved, but within 3, 8, or 14 months they died without any apparent cause.

These observations and results warn against extensive indiscriminate therapy by radioactive isotopes and especially p32.

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MYASNIKOV, Aleksandr Leonidovich; CHAZOV, Yevgeniy Ivanovich;
SHKHVATSABAYA, Igor' Konstantinovich; KIPSHIDZE, Nodar
Nikolayevich; VINOGRABSKIY, A.B., red.; MIROMOVA, A.M.,

[Experimental necroses of the myocardium] Eksperimental'nye nekrosy miokarda. Moskva, Medgis, 1963. 202 p.

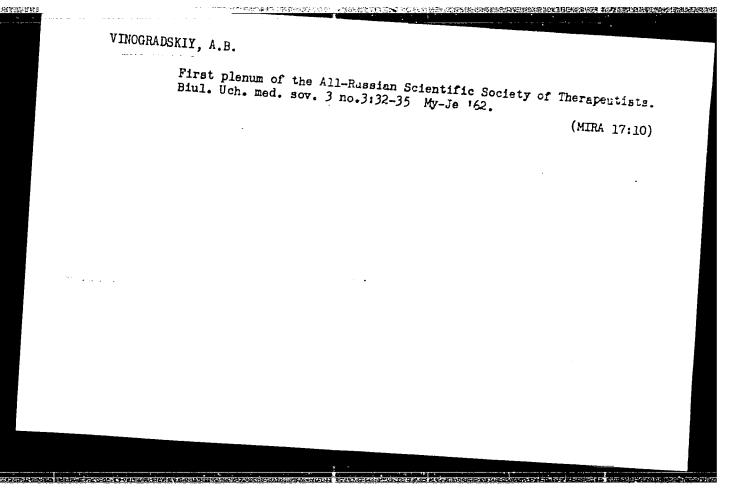
(HEART--NECROSIS)

(MIRA 16:10)

ABRAMOV, M.G., doktor med. nauk; ALEKSEYEV, G.A., prof.; ASTAPENKO, M.G., prof.; BUREYKO, V.M., dots.; VARSHAMOV, L.A., prof.; VINOGRADSKIY, A.B., KARPOVA, G.D.; KASSIRSKIY, I.A., prof.; KUSHKIY, R.O., doktor med. nauk; LIBERMAN, B.I.; LIKHTSIYER, S.G., prof.; LUZHETSKAYA, T.A., kand. med. nauk; MOISEYEV, POROSHINA, I.I.; PREOBRAZHENSKIY, A.P., dots.; RADVIL', O.S., prof.; RATNER, M.Ya., doktor med. nauk; RASHEVSKAYA, A.M., prof.; SEMENDYAYEVA, M.N., kand. med. nauk; SIGIDIN, Ya.S., kand. med. nauk; ARTEMIYEV, S.G., red.

[Therapeutist's handbook] Spravochnik terapevta. Izd.2., ispr. i dop. Moskva, Meditsina, 1965. 863 p.

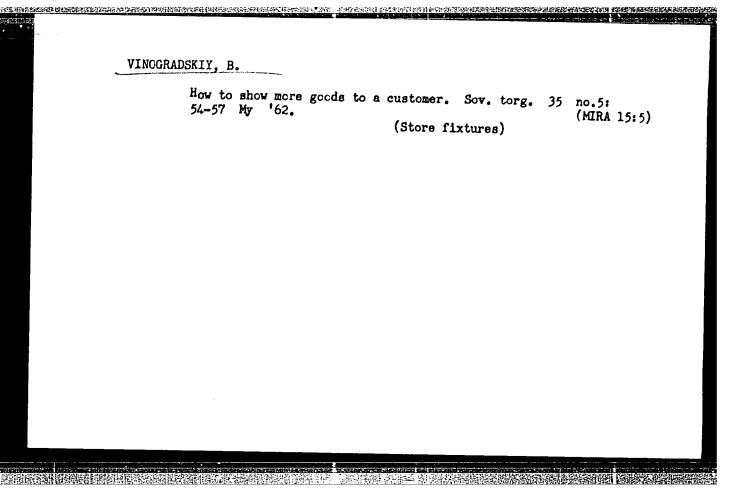
1. Deystvitel nyy chlen AMN SSSR (for Kassirskiy).

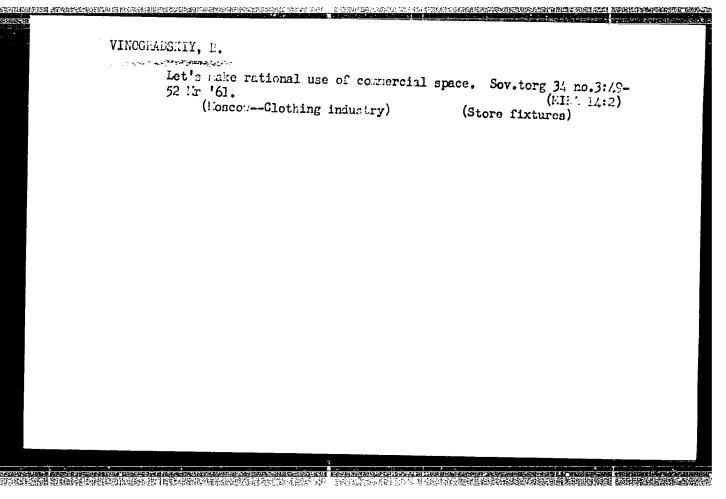


# VINOGRADSKIY, A.Yu., inzh.

Discussing some paragraphs of the Regulations for the Technical Operation of Electric Power Plants Equipped with Internal Combustion Engines as applied to the present-day practices of diesel electric power plants. Energomashinostroenie 8 no.3:43, 48 (MIRA 15:2)

(Electric power plants) (Electric engineering-Laws and legislation)





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YANOVSKIY, D.N., prof.; NADGORNAYA, N.I.; GANDZIY, G.P.; VINOGRADSKAYA-YEZERSKAYA, M.A.

Morphology of thrombocytes in leukemia patients as shwn by data of the electron microscope. Vrach.delo no.12:1275-1279 D '59.

(MIRA 13:5)

1. Laboratoriya etiologii opukholey (zav. - deystvitel'nyy chlen AMN SSSR, prof. A.D. Timofeyevskiy) Ukrainskogo nauchno-issledo-vatel'skogo instituta epidemiologii i mikrobiologii i otdel klini-cheskoy gematologii (zav. - prof. D.N. Yanovskiy) Instituta klini-cheskoy meditsiny im. akademika N.G. Strazhesko.

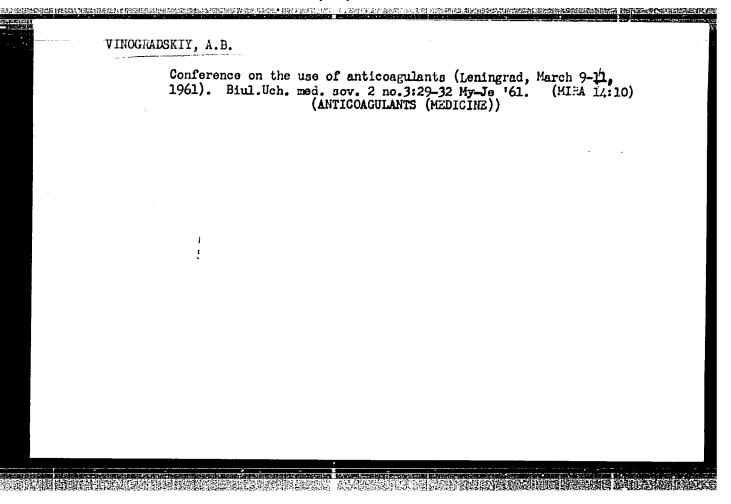
(BLOOD PLATELETS)

MYASNIKOV, A.L., prof., red.; VINOGRADSKIY, A.B., red.; BUL'DYAYEV, N.A., tekhn. red.

[Use of steroid hormones in the clinic for internal diseases] Primenenie steroidnykh gormonov v klinike vnutrennikh boleznei. Moskva, Modgiz, 1962. 174 p. (MIRA 1516)

1. Deystvitel'nyy chlen Akademii meditsinskikh nauk SSSR (for Myasnikov ).

(STEROID HORMONES) (MEDICINE, INTERNAL)



TARASOV, K.Ye., dotsent; VINOGRADSKIY, A.B.; SMOLENSKIY, V.S.

Deductive conclusions in diagnosis. Trudy 1-go MMI 37:174-184 \*65.

(MIRA 18:8)

### VINOGIADSKIY, A.B.

Effect of ACTH on experimental atherosclerosis. Biul. eksp. biol. i med. 46 no.11:28-32 N '58. (MIRA 12:1)

1. Iz gospital'noy terapevticheskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova (dir. - deystvitel'nyy chlen AMN SSSR A.L. Myasnikov). Predstavlena deystvitel8nym chlenom AMN SSSR A. L. Myasnikovym.

(ARTERIOSCLEROSIS, exper. eff. of ACTH (Rus)) (ACTH, effects, on exper. arteriosclerosis (Rus))

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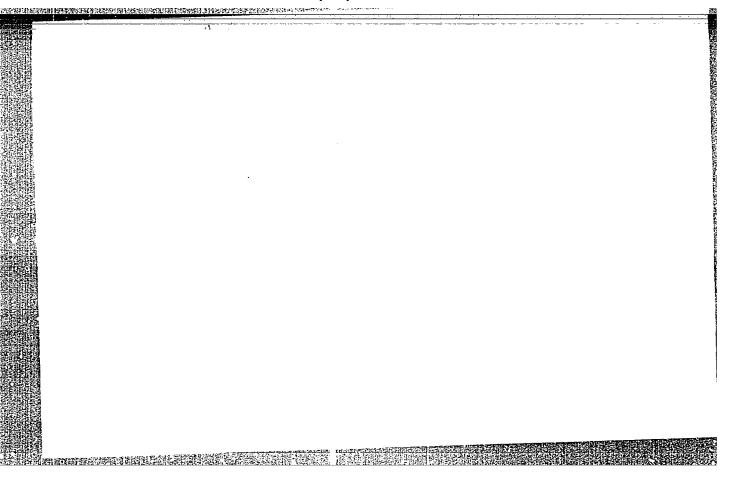
# WINOGRADSKIY, A.B. Iffect of cortisone on the development of experimental atherosclerosis and on blood lipids and urinary 17-ketosteroids in humans; clinical and experimental studies. Terap.arkh. 31 no.9:47-56 3 '99. (MIRA 12:11) 1. Iz gospital'noy terapevticheskoy kliniki imeni A.A. Ostroumova (dir. - deystvitel'nyy chlen ANN SSSR prof. A.L. Myasnikov) I Moskov-skogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. (GCRTISONE pharmacol.) (ARTERIOSCIEROSIS exper.) (LIPIDS blood) (17-KETOSTEROIDS urine)

VINOGRADSKIY, A.B.

Blood lipids and 17-ketosteroids in the urine in adrenocorticotropic hormone therapy. Probl. endok. i gorm. 6 no. 5:67-73 '60.

(MIRA 14:1)

(ACTH) (LECITHINS) (CHOLESTEROL) (STEROIDS)



winogradskiy, A. B. Cand Med Sci -- "Effect of the adrenocorticotropic hypophysis hormone" (ACTH) and cortisone upon the development of experimental atherosclerosis, the level of blood lipoids, and archerge of 17-ketosteroids of the urine in humans." Mos, 1960 (Acad Med Sci USSR). (KL, 1-61, 206)

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# NEYMAN, I.I.; KIRILLINA, A.A.; VINOGRADSKIY, A.B.

Semiautoma ic drill with four horing bars for making lock seats. Suggested by I.I.Neiman, A.A.Kirillina, A.B. Vinogradskii. Rats. i izobr.predl.v stroi. no.16:44-45 '60. (MIRA 13:9)

1. Babotniki derevcobrabatyvayushchego kombinata No.3 tresta Glavmospromstroymaterialy Mosgorispolkoma, Moskva, 1-ya Karacharovskaya ul, d.8.

(Drilling and boring machinery)

VINOGRADSKIY, A.B.; USVATOVA, I. Ya.

Therapeutic use of hydrocortisone and the functional state of the adrenal cortex in myocardial infarct complicated by collapse. Kardiologiia 4 no.4:31-37 Jl-Ag 1 64. (MIRA 19:1)

1. Gospital naya terapevticheskaya klinika (direktor- deystvitel nyy chlen AMN SSSR prof. A.L. Myasnikov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M. Sechenova. Submitted May 15, 1963.

ZAMKOVSKIY, Dmitriy Yekovlevich; VINOGRADSKIY, Borit Mikolayavich;
GRAHOVSKAYA, I.Z., redaktor; SUDAR, D.H., tekhnicheskiy redaktor

[Clothing; a handbook] Shveinye tovary; spravochnoe posobie. Moskva, Gos. izd-vo torgovoi lit-ry, 1956. 206 p. (MIRA 10:4)

(Clothing and dress--Marketing)

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Racks for displaying ready-made clothes. Nov.torg.tekh.
no.3:21-22 '56. (MLRA 9:10)

(Clothing trade--Equipment and supplies)